



OWNER'S MANUAL DC-1900C Dust Collector



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M-708637C 1/02

This manual has been prepared for the owner and operators of JET'S DC-1900C. Its purpose, aside from machine operation, is to promote safety through the use of accepted correct operating and maintenance procedures. Completely read the safety and maintenance instructions before operating or servicing the machine. To obtain maximum life and efficiency from your Dust Collector, and to aid in using the machine safely, read this manual thoroughly and follow instructions carefully.

Warranty & Service

The JET Group warrants every product it sells. If one of our tools needs service or repair, one of our Authorized Repair Stations located throughout the United States can give you quick service.

In most cases, any one of these JET Group Repair Stations can authorize warranty repair, assist you in obtaining parts, or perform routine maintenance and major repair on your JET, Performax or Powermatic tools.

For the name of an Authorized Repair Station in your area, please call 1-800-274-6848.

More Information

Remember, the JET Group is consistently adding new products to the line. For complete, up-to-date product information, check with your local JET Group distributor.

JET Group Warranty

The JET Group (including Performax and Powermatic brands) makes every effort to assure that its products meet high quality and durability standards and warrants to the original retail consumer/purchaser of our products that each product be free from defects in materials and workmanship as follow: 1 YEAR LIMITED WARRANTY ON ALL PRODUCTS UNLESS SPECIFIED OTHERWISE. This Warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, repair or alterations outside our facilities, or to a lack of maintenance.

THE JET GROUP LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD SPECIFIED ABOVE, FROM THE DATE THE PRODUCT WAS PURCHASED AT RETAIL. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG THE IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THE JET GROUP SHALL IN NO EVENT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERTY, OR FOR INCIDENTAL, CONTINGENT, SPECIAL, OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

To take advantage of this warranty, the product or part must be returned for examination, postage prepaid, to an Authorized Repair Station designated by our office. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection discloses a defect, we will either repair or replace the product, or refund the purchase price if we cannot readily and quickly provide a repair or replacement, if you are willing to accept a refund. We will return repaired product or replacement at JET'S expense, but if it is determined there is no defect, or that the defect resulted from causes not within the scope of JET'S warranty, then the user must bear the cost of storing and returning the product. This warranty gives you specific legal rights; you may also have other rights which vary from state to state.

The JET Group sells through distributors only. Members of the JET Group reserve the right to effect at any time, without prior notice, those alterations to parts, fittings, and accessory equipment which they may deem necessary for any reason whatsoever.

WARNING

1. **Read and understand the entire contents of this manual before attempting assembly or operation. Do not use this machine until proper training and knowledge has been obtained.**
2. Do not leave Dust Collector when plugged in. Unplug from outlet when not in use and before servicing.
3. Do not use outdoors or on wet surfaces.
4. Do not allow to be used as a toy. Close attention is necessary when used near children.
5. Use only as described in this manual. Use only manufacturer's recommended attachments.
6. Do not use with damaged cord or plug. If Dust Collector is not working as it should, has been dropped, damaged, left outdoor, or dropped in water, return it to a service center.
7. Do not pull or carry by cord, use cord as a handle, close a door on cord, or pull cord around sharp edges or corners. Do not run Dust Collector over cord. Keep cord away from heated surfaces.
8. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
9. Do not handle plug or Dust Collector with wet hands.
10. Do not put any objects into the openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
11. Keep hair, loose clothing, fingers, and all parts of body away from opening and moving parts.
12. Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
13. Do not use without dust bag and/or filters in place.
14. Turn off all controls before unplugging.
15. Do not use to pick up flammable or combustible liquids such as gasoline or use in areas where they may be present.
16. Do not operate without hose connected to the inlet ports or covered by an inlet cap. Hazardous moving parts inside. Unplug machine before removing inlet port, inlet cap, hose, or inlet guard.
17. Use the inlet caps to cover the inlet port openings that are not connected to hoses.
18. Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
 - Lead from lead based paint
 - Crystalline silica from bricks and cement and other masonry products, and
 - Arsenic and chromium from chemically-treated lumber.
19. Your risk from those exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specifically designed to filter out microscopic particles
20. Do not operate tool while under the influence of drugs, alcohol or any medication.
21. Make sure the extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersize cord will cause a drop in the line voltage resulting in loss of power and overheating. The table below shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller gauge number, the heavier the cord.
22. Do not use dust collector for anything except wood dust. Materials such as liquids, metal shavings, metal dust, screws, glass, plastic or rock can cause sparks and/or damage when coming into contact with any part of the dust collector.
23. Ground your dust collector along all plastic components. The connection of bare 12 gauge copper wire on all plastic hoses, fittings and blast gates to all machines will help reduce the occurrence of static build up and discharge.

SAVE THESE INSTRUCTIONS

Specifications:

DC-1900C

Stock Number.....	708637C
Blower Wheel Diameter.....	14"
Sound Rating at 3 feet.....	86-92 db
Hose Diameter.....	4" & 8"
Air Flow at 8" (CFM).....	1,900
Velocity at 8" (FPM).....	5,629
Static Pressure (inch of water).....	12.15
Bag Diameter.....	20"
Bag Length.....	48" & 29"
Collector Bag Capacity (cu. ft.).....	10.68
Overall Dimensions.....	58"L x 30"W x 72-1/2"H
Motor (TEFC).....	3 HP, 1Ph 230V only
Net Weight (approx.).....	236 lbs.

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The specifications in this manual are given as general information and are not binding. JET Equipment & Tools reserves the right to effect, at any time and without prior notice, changes or alterations to parts, fittings, and accessory equipment deemed necessary for any reason whatsoever.



WARNING

Read and understand the entire contents of this manual before attempting assembly or operation of the dust collector!
Failure to comply may cause serious injury!

Unpacking

1. Remove all contents from the shipping carton.
2. Report any damage to your distributor.
3. Do not discard any shipping material until after the dust collector has been assembled and is running properly.

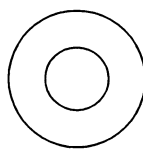
Contents of the Shipping Cartons

Canister Filter Box (2)

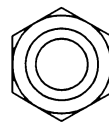
1. Canister Filter
1. Handle
1. Bag of Hardware for Handles
 2. M10 Hex Nuts
 2. M10 Flat Washers
1. M10 Lock Washer
4. Knobs

DC-1900C

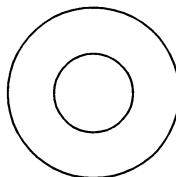
1. Base
1. Owner's Manual
1. Warranty Card
1. Motor/Fan Assembly
10. Collector Bags
2. Snap Rings
4. Casters
1. Inlet Port & Inlet Caps
2. Support Legs
1. Left Housing
1. Right Housing
2. Upper Gaskets
1. Lower Gasket
1. Connector Tube
1. Bag of Assembly Hardware
 36. M8 x 20 Hex Cap Bolts
 56. M8 Flat Washers
 6. M10 Flat Washers
 8. M6 x 12 Pan Head Flange Bolts
 26. M8 Hex Nuts
 1. 3/16" x 1/2" Pan Head Flange Bolt



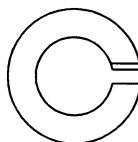
56) M8
Flat Washers



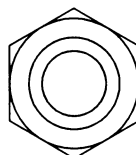
26) M8
Hex Nuts



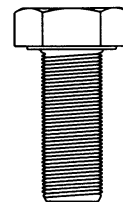
8) M10
Flat Washers



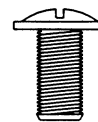
1) M10
Lock Washer



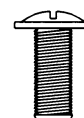
2) M10
Hex Nuts



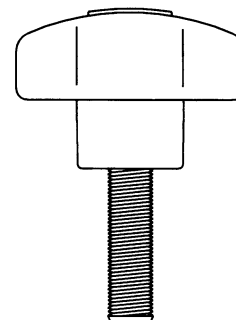
36) M8 x 20
Hex Cap Bolts



8) M6 x 12
Pan Head Flange Bolts



1) 3/16" x 1/2"
Pan Head Flange Screw



4) M6 x 20
Knobs

Tools Required for Assembly

2. 13mm Wrenches or Sockets
1. 14mm Wrench or Socket
1. #2 Cross Point Screw Driver
1. 17mm Wrench

Assembly

WARNING

The dust collector must be disconnected from the power source during assembly, unplug. Failure to comply may result in serious injury!

1. Install *four* casters to the under side of the base as pictured in Fig. 1. Thread the hex nut (B, Fig. 1) onto the caster shaft. Then slide the lock washer (A, Fig. 1) over the caster shaft. Thread the caster shaft into the threaded hole on the underside of the base, turn until snug. Tighten the nut (B, Fig. 1) against the base with a 14mm wrench. This will give the caster proper clearance.
2. Place the base with casters on the ground. Attach the motor and fan assembly (C, Fig. 2) to the base using *six* M8 x 20 hex cap bolts, *six larger* M10 flat washers (D, Fig. 2), and a 13mm wrench.
3. Place the gasket (E, Fig. 2) on the fan housing. Line up the pegs on the gasket with the holes in the housing.
4. Attach inlet guard (F, Fig. 2) to fan housing using *eight* M6 x 12 pan head screws (G, Fig. 2). Press the inlet port onto the inlet guard until it snaps into place. Secure in place with a 3/16" x 1/2" pan head flange screw (H, Fig. 2).

WARNING

To reduce the risk of injury from moving parts, always keep inlet port covered with the caps provided, if they are not connected to a hose. Failure to comply may result in serious injury!

5. Attach connector tube to fan housing using *six* M8 x 20 hex cap bolts, *twelve* M8 flat washers, *six* M8 hex nuts (I, Fig. 3), and a 13mm wrench. Be sure connector tube faces the proper direction, as shown in Figure 3.

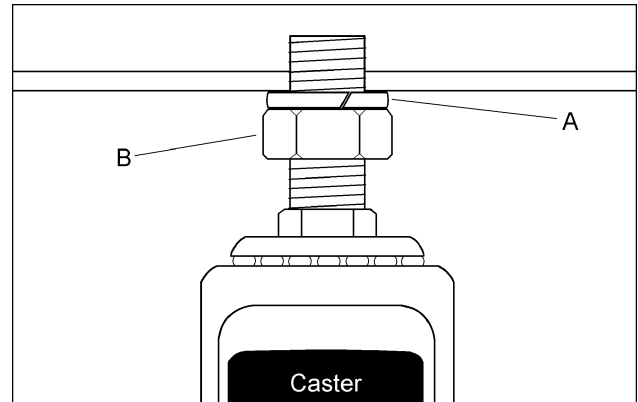


Fig. 1

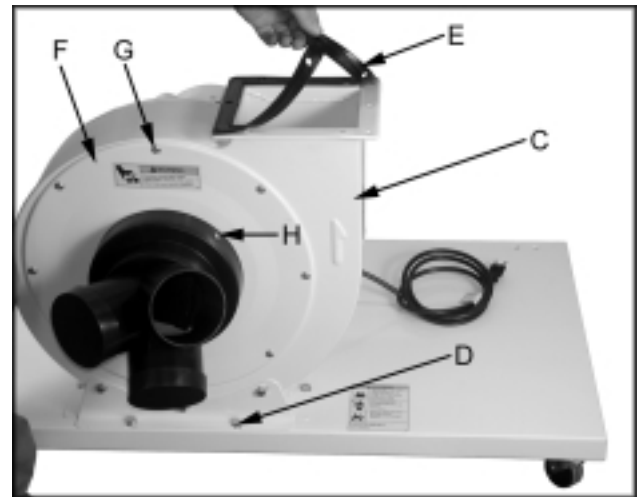


Fig. 2



Fig. 3

6. Place the gasket (A, Fig. 4) between the housing and connector tube. Line up the pegs on the gasket with the holes in the housing.
7. Attach the collector housing (B, Fig. 4) to connector tube with *eight* M8 x 20 hex cap bolts, *sixteen* M8 flat washers, and *eight* M8 hex nuts . Be sure that inside deflector of the housing points down toward the collector bag.

Note: There are two holes in the housing that need to be on the same side as the two holes in the base.

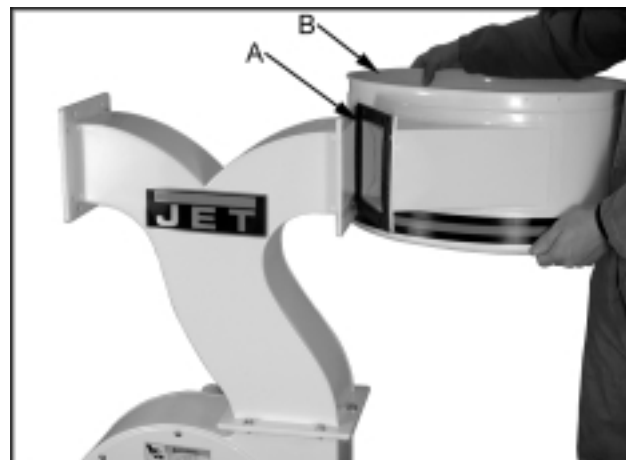


Fig. 4

8. Repeat for opposite side, see Figure 5.



Fig. 5

9. Attach support bracket (C, Fig. 6) to base using *two* M8 x 20 hex cap bolts and *two* M8 flat washers, (D, Fig. 6). Do not tighten at this time.
10. Align holes and secure to canister with *two* M8 x 20 hex cap bolts, *four* flat washers, and *two* hex nuts, (F, Fig. 6).
11. Tighten the two bolts holding the support to the base.
12. Repeat for opposite side.



Fig. 6

13. Place the ring over the top of the plastic bag and fold over the bag approximately three inches, Figure 7.



Fig. 7

14. Insert the snap ring (A, Fig. 7) of the collector bag into the bottom of the housing at an angle.
15. Pull down on the ring to make sure it “seats” in the housing.

Note: make sure the snap ring “snaps” into place in the housing, and also that the plastic bag hangs down approximately 3” so that there are no air leaks.

16. Repeat for opposite side.



Fig. 8

17. Mount the handle onto the canister filter with *two* M10 hex nuts, *two* M10 flat washers, and a M10 lock washer, see Figure 9.

18. Repeat for the opposite side.

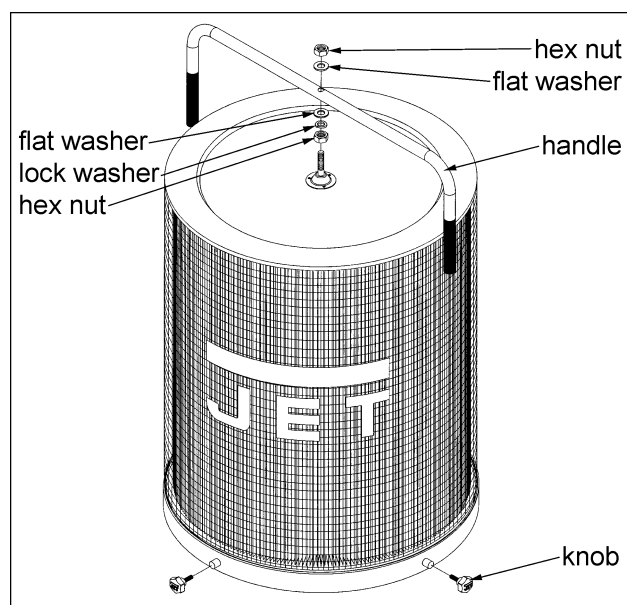


Fig. 9

Electrical Connections

WARNING

All electrical connections must be done by a qualified electrician. All adjustments or repairs must be done with the dust collector disconnected from the power source, unplugged. Failure to comply may result in serious injury!

The DC-1900-1 dust collector is rated at **230V Only** and is not supplied with a plug. Use a plug and outlet rated at least 20 amps. The circuit for the machine should also be protected by at least a 20 amp circuit breaker or fuse. Keep in mind that a circuit being used by other machines, tools, lights, heaters, etc. at the same time will add to the electrical load. A dedicated circuit to the dust collector will give you the best results since dust collectors are generally used at the same time other tools are running.

Before hooking up to the power source, make sure that the switch is in the off position.

Turning the Machine On & Off

Before hooking up to the power source, make sure that the switch is in the off position.

The dust collector can be turned on by pressing the start button mounted next to the motor. Press the stop button to turn off the dust collector.

Maintenance

WARNING

Never perform maintenance on this machine before turning switch off and removing plug from power source, unplug. Failure to comply may cause serious injury!

Cleaning the Filter

Clean both the filter and collector bags frequently to keep the collector's performance at its optimum.

To clean the filter turn the handle a couple rotations so the dust falls into the collector bag.

Removing the Collector Bag

CAUTION

Wearing a particle mask/respirator for protection against fine dust particles during cleaning is highly recommended.

1. **Disconnect the machine from the power source, unplug.**
2. Remove the collector bag by pushing the ring of the collector bag upwards at an angle and pulling the bag and snap ring out.
3. Empty the contents into an appropriate container.
4. See Page 8 for details on replacing the collector bags.

Motor

Make frequent inspections of the motor fan and blow out (with low pressure air hose) or vacuum any accumulation of foreign material in order to maintain normal motor ventilation.

Connecting the Dust collector to a Machine

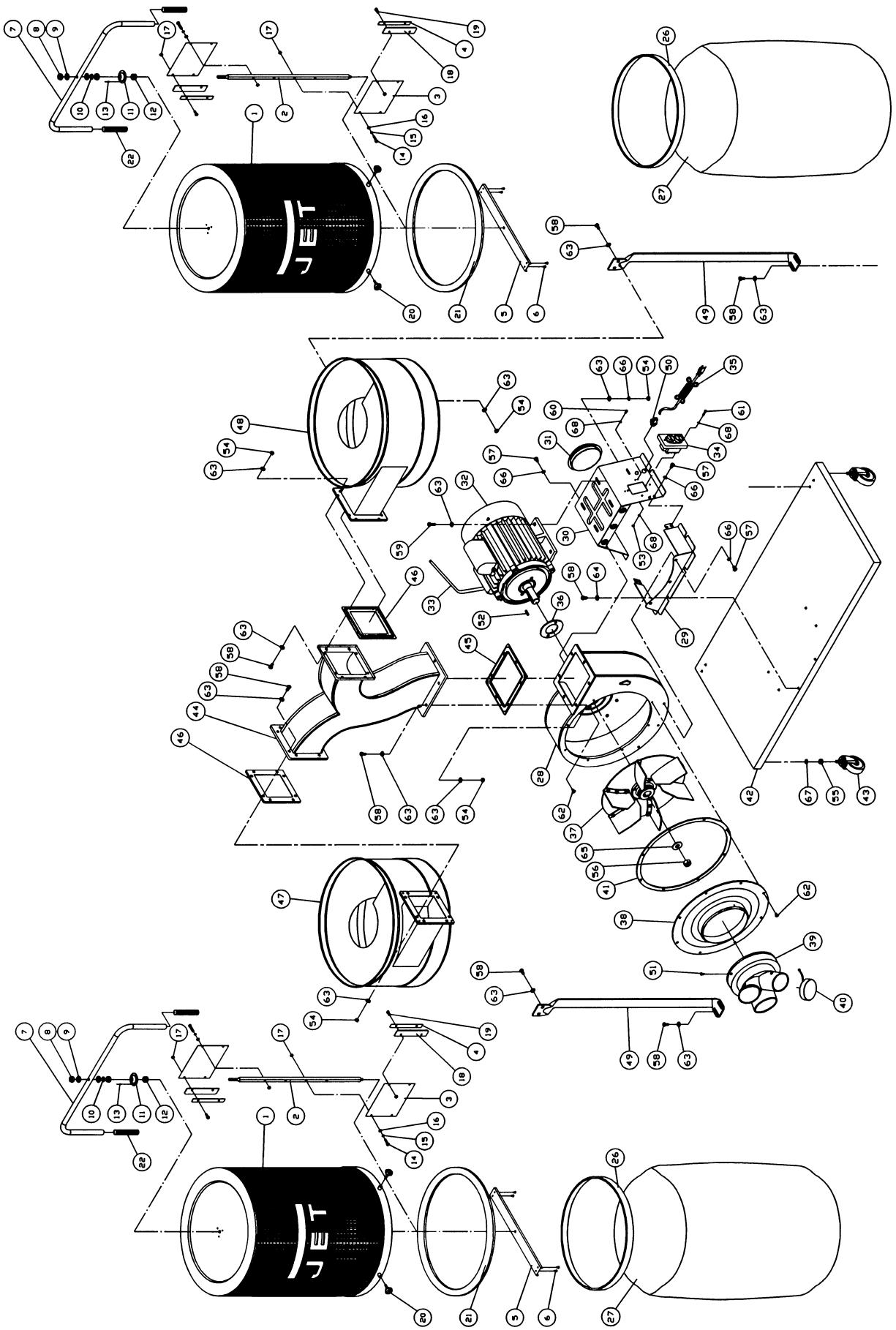
Use the proper type hose to connect the dust collector to the machine being operated. Dryer vent hose is not acceptable for this purpose. Contact your nearest JET distributor for the full line of JET Dust Collector Hoses and Accessories. Customize your installation and obtain maximum performance with JET's dust hoods, hoses, clamps, fittings, and blast gates.

You can also purchase the JET *"Dust Collection Basics Video"* stock # JW1050V through your JET Distributor

Grounding the Dust Collection System

The dust collection system includes the dust collector and the hose, or duct work you use to connect the tools. The dust collector is grounded through the ground wire in the cord. The hose or duct work you use to connect the tool to the dust collector must also be grounded. To assist in grounding your system you can purchase the JET *"Dust Collector Grounding Kit"* stock # JW1053, and also the JET *"Dust Collection Basics Video"* stock # JW1050V through JET Distributors.

Parts Breakdown



Parts List for the DC-1900C Canister Filter

Index No.	Part No.	Description	Size	Qty.
1	708739	Filter		2
2	331010	Shaft		2
3	331012	Scraper		4
4	331015	Plate		4
5	331009	Support		2
6	ST049200	Tapping Screw	M4x8	8
7	331050	Handle		2
8	NH101700	Nut	M10	4
9	WF102025	Flat Washer	M10	4
10	WS100000	Spring Washer	M10	2
11	331014	Bracket		2
12	150623	Pad		2
13	BR000052	Rivet		6
14	SH060400	Hex Head Bolt	M6x20	8
15	WS060000	Spring Washer	M6	8
16	WF061310	Flat Washer	M6	8
17	NH061000	Nut	M6	16
18	331017	Plate		4
19	SH069300	Hex Head Bolt	M6x12	8
20	331037	Knob	M6x20	8
21	331031	Pad		2
22	331051	Soft Grip Handle		4
26	331038	Snap Ring		2
27	998674-36	PVC Bag		10
28	431018W	Impeller Housing		1
29	431019W	Impeller Housing Bracket		1
30	431020W	Motor Bracket		1
31	450038	Bracket Cap		1
32	DC1900-20W	Motor	3HP, 1Ph 230V Only	1
	DC1900-MFC	Motor Fan Cover (not shown)		1
	DC1900-MF	Motor Fan (not shown)		1
	DC1900-20B	Starting Capacitor (not shown)	600MFD, 125VAC	1
	DC1900-CS	Centrifugal Switch and Rotor (not shown)		1
33	IM431001	Motor Cord		1
34	994542	Switch		1
35	DC1900-33	Power Cord		1
36	420051	Motor Pad		1
37	431006	Impeller	14"	1
38	431008W	Inlet Guard	8"	1
39	499025	Inlet Port	3-4"	1
40	420203	Inlet Cap		2
41	431034	Rubber Gasket		1
42	430028W	Base		1
43	402036	Pivoting Caster		4
44	430004W	Connector Tube		1
45	430035	Gasket		1
46	430036	Gasket		2
47	430012W	Left Housing		1
48	430020W	Right Housing		1
49	402004W	Support Bar		2
50	998654	Strain Relief		2
51	990855	Pan Head Bolt w/Flange	3/16 x 1/2"	1
52	992021	Key	7x7x20	1

Index No.	Part No.	Description	Size	Qty.
53	991213	Nut	3/16"	1
54	TS-1540061	Nut	M8	30
55	TS-0561031	Nut	3/8" -16 UNC	4
56	TS-0561072	Nut	5/8" -18 UNF	1
57	TS-1490011	Hex Head Bolt	M8x12	10
58	TS-1490031	Hex Head Bolt	M8x20	36
59	TS-1490041	Hex Head Bolt	M8x25	4
60	990855	Pan Head Bolt	3/16 x 1/2"	1
61	990856	Pan Head Bolt	3/16 x 1"	2
62	TS-1554041	Pan Head Bolt W/Flange	M6x12	10
63	TS-0680031	Flat Washer	M8	64
64	TS-1550071	Flat Washer	M10	6
65	TS-155010	Flat Washer	M16	1
66	TS-0720081	Spring Washer	M8	14
67	TS-1551071	Spring Washer	M10	4
68	WE050000	Star Washer (Ext)	M5	4
	DC1900-30	Grounding Label (not shown)		1
	DC1900-31	Direction Label (not shown)		1
	DC1900-ID	Identification Label (not shown)		1
	DC1900-32	Name Plate (not shown)		1
	DC1900-HP	Hardware Package (not shown)		1
	DC1900-53	Warning Label (Base - not shown)		1
	DC1900-54	Warning Label (Inlet Guard - not shown)		1

Wiring Diagram For Single Phase 230V Only Dust Collector

